



NADEP

Jacksonville, FL



www.snt.navsup.navy.mil

***Ready. Resourceful.
Responsive!***

**MATT MULLINS
LCDR, USN
22 MAY 2003**

Outline

- **Background/Overview**
- **Implementation**
 - System Access
 - AIT
- **Demonstrations**
- **Aviation Rollout**
- **Military Standards (Product, Package, Contracts)**
- **CAV-ORM**
- **Web Site - Reports**
- **Recent Accomplishments**
- **Summary**

How SNT Got Started

Aviation Maintenance-Supply Readiness (AMSR) Review Tasking - 1998

Background/Overview

↓ Lower Maintenance & Supply Cost
↑ Increase Readiness



Result - Serial Number Tracking Initiative provided

- Retrograde Tracking & TAV

By T/M/S, Organization and time period

- Cannibalization data
- BCM statistics
- Top Cost Driver figures
- Reliability information



Definition:

Closed-loop, cradle-to-grave tracking of maintenance critical, serialized components, providing asset visibility and material status, and enabled by automatic identification technology (AIT)



Plan:

Collect data through interfaces with various supply and maintenance systems and provide access to stakeholders via a Virtual Shared Data Warehouse

Major Benefits

Background/Overview

Maintenance

- ◆ Identify Maintenance Deficiencies
- ◆ Measure Reliability
- ◆ Accurate Record Configuration
- ◆ Determine Training Requirements
- ◆ Assist Engineering Investigations

Supply

- ◆ Assess Repair Turn Around Time
- ◆ Decrease Misidentification and Loss
- ◆ Warranty Management
- ◆ Predict Parts Requirements
- ◆ Better Procurement Decisions
- ◆ Measure Reliability
- ◆ Achieve Total Asset Visibility

SNT Consists of Two Pillars

SNT requires
two
components

Implementation

Data Base Access

WMRIL/A-ORS
eRMS/WMPS
UICP
WEB-CAV
CAV-ORM
CAV-Navy
FACTS
OOMA/OIMA
R-Supply
IBS

AIT

CMB
2D Data
matrix
2D PDF417
ISO15418/15
434
MILSTD129
MILSTD130
MSL
IRRD

FIRST

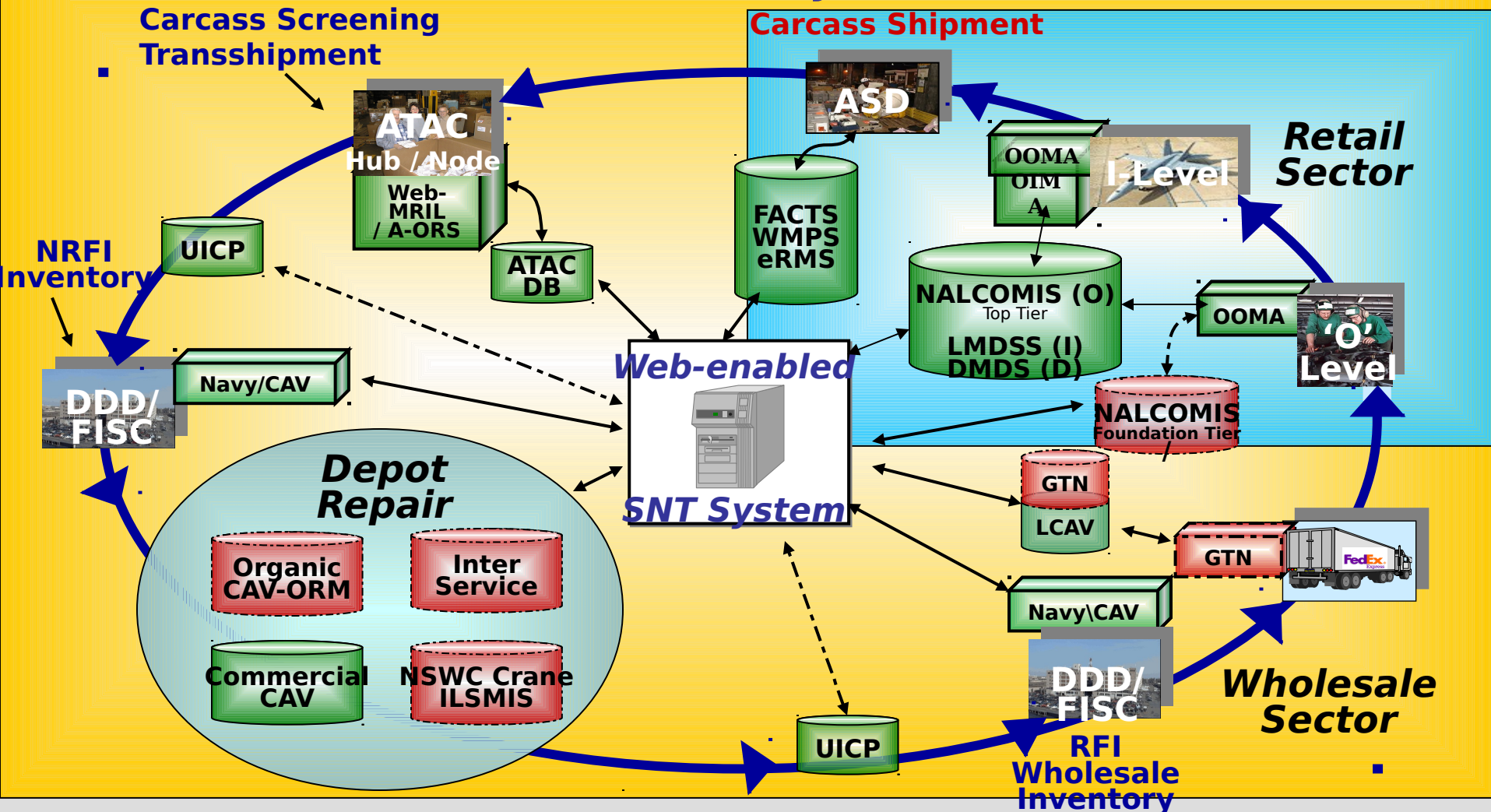
Live
access
to
databases
via the
SNT Web-
enabled
portal.

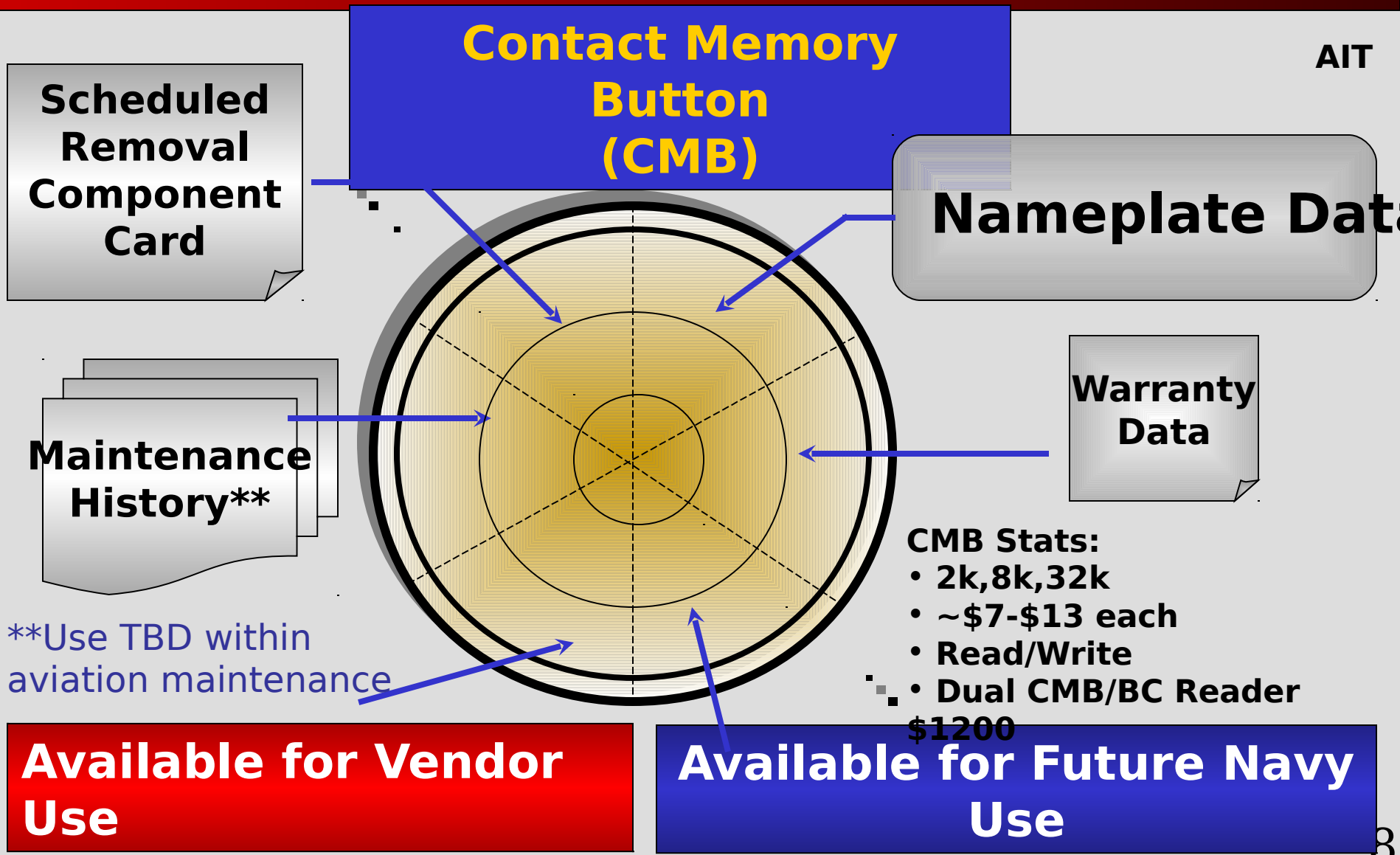
SECOND

Automatic
Identification
Technology
(AIT) is used
by the SNT
to maintain
data accuracy

Information Systems

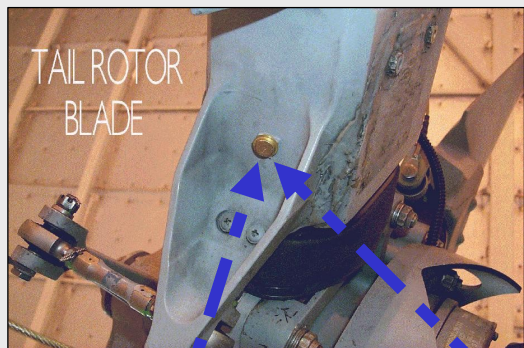
System Access





AIT Maintenance Data Collection (OOMA)

AIT Feed



NALCOMIS OMA

File Window Help

Active Work Order Query

ORG: WAT

BUNO/Serno: 163

WUC/ANS:

MCN:

MCN:

MCN:

000064P W/A

000064Q W/A

000064T W/A

000064U W/A

000064V W/A

000064X W/A

Work Order Update - Installed

Mal Cd: 811 Pos Cd: 09 Buno/Serno: 163086

Parent Assy: 15A7480 [MAIN ROTOR HEAD HUB ASSEMBLY]

Install Item: 15A7492 [BLADE LOCK PIN (W/A) (Station 9)]

INSTALLED

Cage: F8286 Part Number: 65664-11150-043

Serno: SL01624 Date Installed: 30 APR 2002

CDI Signature:

OK Cancel Apply

Sort By

Ready | OMA_HOST | [02143] | 23 May 2002 12:50:33 | User OTTA



DownLoaders/Rechargers



Information System
OOMA

Button
Readers



Retrograde Cycle



AIT Feed

NAVAL SUPPLY SYSTEMS

COMMAND

NALCOMIS OMA

File Window Help

Active Work Order Query

Work Order Update - Removed

ORG: BY0

BUNO/SERNO: 162

WUC/UHS: 00BO1W9

MCH: 00BO1W9

Page: 78286

Serno: XXX

Part Number: 70550-02126-103

Date Removed: 16 MAR 2000

CDI Signature:

OK Cancel Apply

Sort By

Ready 29% INTOMADV1 [00076] 16 Mar 2000 16:36:35 User PINGEL

TRANSHIP TO ATAC

Security Code u

MAILABLE CAND RMN IN PLACE

LEVEL REQD TRIM

ATAC NORFOLK

406 B ST-BLDG 88070 ATAC NORFOLK

NORFOLK, VA 23514

SIGN Todd Zoforth

FEB 06 2002

DD FORM 1346 NOV 87 ISSUE RELEASE/RECEIPT DOCUMENT

Output From OOMA



Information System OOMA/OIMA/R-Supply

Creates Invoice W/ SN

- ✓ **H-60/HSL-40**
- ✓ **SCADC**
- ✓ **SQQ-32 SONAR**
- ✓ **HOSS Camera (AN/SXY-1)**
- ✓ **CAMS II A5 MODULE on SUBMARINE**

Demonstrations



Supply - Aviation 5 Year Plan

Aviation Rollout

**Total # of
Items marked
1,267,091**

**SNT Implementation
Cost = \$58,211,346**

T/W/S	Total Number Aircraft	Components per Aircraft	Total Number of Components (W/ 25% spares)	Total CMB Cost	Contractor Installation Cost	Total Engineering Document Cost	Total AIT Cost
MH-53E	46	170	9,775	\$152,783.25	\$272,412.00	\$136,000.00	\$605,932.55
CH-53E	164	170	34,850	\$544,705.50	\$817,236.00	\$136,000.00	\$1,597,820.10
CH-53D	44	104	5,720	\$89,403.60	\$272,412.00	\$83,200.00	\$486,995.50
CH-53K	42	300	128,250	\$2,004,547.50	\$3,268,944.00	\$240,000.00	\$5,665,423.90
CH-53K	41	400	55,500	\$867,465.00	\$708,271.00	\$320,000.00	\$1,712,510.96
EA-6B	5	469	9,380	\$146,609.40	\$163,447.20	\$375,200.00	\$1,712,510.96
EA-6B	4	196	47,530	\$742,893.90	\$898,959.60	\$156,800.00	\$1,757,972.56
EA-6B	26	132	20,790	\$324,947.70	\$599,306.40	\$105,600.00	\$1,056,100.96
EA-6B	80	70	20,125	\$314,553.75	\$926,200.80	\$56,000.00	\$1,383,946.57
EA-6B	46	70	6,913	\$108,042.38	\$435,859.26	\$56,000.00	\$609,546.56
EA-6B	124	144	22,320	\$348,861.60	\$1,035,165.60	\$115,200.00	\$1,659,147.94
EA-6B	458	203	116,218	\$1,816,479.53	\$3,922,732.80	\$162,400.00	\$6,254,890.39
AV-8	72	921	198,015	\$3,094,974.45	\$871,718.40	\$736,800.00	\$4,899,087.53
F-14A/B/D	193	200	48,250	\$754,147.50	\$871,718.40	\$160,000.00	\$1,940,564.86
P-3's	264	75	24,750	\$386,842.50	\$1,797,919.20	\$60,000.00	\$2,452,987.68
Cargo	295	175	64,531	\$1,008,623.44	\$2,724,120.00	\$140,000.00	\$4,297,527.69
Trainers	515	129	83,044	\$1,297,973.81	\$817,236.00	\$103,200.00	\$2,399,150.46
E-2C	75	145	13,594	\$212,470.31	\$1,525,507.20	\$116,000.00	\$1,963,874.10
C-2A	38	145	6,888	\$107,651.63	\$217,929.60	\$116,000.00	\$461,500.85
F-18ABCD	745	200	186,250	\$2,911,087.50	\$4,794,451.20	\$160,000.00	\$8,327,383.34
F-18EF	548	240	164,400	\$2,569,572.00	\$2,179,296.00	\$192,000.00	\$5,206,021.20
Misc Support							\$2,805,000.00
Total			1,267,091	\$19,804,636.24	\$29,120,842.80	\$3,726,400.00	\$58,211,345.83

- 
- Identify Parts to be Marked
 - Get Approval
 - Update Drawings & Technical Manuals & Directives
 - Provide Configuration & ILS Support
 - Establish Plan for Marking
 - Plane Side
 - Warehouse (Wholesale & Retail)
 - Amend Repair Contracts/ New Items for Supply

Product - AIR

Mil-Std 130 Identification Marking of U. S. Property Product Marking

Today's Standard

Ser Nr  ABCDE1234

NAME CONT

 12345

 5950-01-234-1234

MFG Spiegelmeier, INC

U. S. NAVY NAVSEASYS COM

Tomorrow's Standard



CMB



2D

Cage V2345
PN 33489-12
NSN 5835-01-141-5888
Ser: 45367

Package - AIT

Mil Std 129 Package Marking

Today's Standard

NSN	 5950001234567
Contract	 DAHCS488D0007
Cage	 33825
Ser Number	 0001937

Tomorrow's Standard

PDF-417 Format	
	Cage 92059
	PN 102770-351
	Ser: 6694
	NSN 7025-01-141-8061
	Cont: N00104-03-F-0023
	Name: Magnetic Tape

Package marking

Invoices

Contracts - AIT



**MIL-STD 129M
PDF417 2D
ANSI MH 10**

Cage: 02059
PN:102770-351
Ser: 6694
NSN 7025011415888
CONT: N00104-98-T-0023
Name: Magnetic Tape
U/I: EA
QTY: 1

DD FORM 1348-1A, NOV 87 ISSUE RELEASE/RECEIPT DOCUMENT

1. TOTAL PRICE		2. SHIP PRICE		3. SHIP TO	
UNIT PRICE	DOLLARS	CTS	N97512	N63196	
DOLLARS	CTS		4. MARK FL: NSC S14 DI: O CA		
5. DOC DATE	6. NMFO	7. PAY RATE	8. TYPE	9. WARD	10. PS
01346					
11. QTY RECD	12. UNIT WEIGHT	13. UNIT CUBE	14. UFC	15. SL	
16. FREIGHT CLASSIFICATION NOMENCLATURE					
17. ITEM NOMENCLATURE VALVE ASSY					
18. TY CONT	19. NO CONT	20. TOTAL WEIGHT	TOTAL CUBE		
21. RECEIVED BY			DATE RECEIVED		

0027

Serial Number

CASREP URGENT

REMARKS: SBR # 0027 CASREPT

Create IRRD with Serial Number

SNT HomePage - Microsoft Internet Explorer provided by Navy Marine Corps Intranet

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History

Web Page

Address http://www.snt.navsup.navy.mil/default.shtml



This is an Official Navy Web site.

Welcome to the US Navy Serial Number Tracking System

- SNTS LOGIN
- Documents
- Registration
- Other Links
- Contact Us
- Calendar
- What's New
- FAQ
- Home

READ THIS:
DoD Security Notice

This system provides the ability to track individual repairable weapons system components by serial number. This is in addition to the existing process of tracking by NSN, part number, or work unit code.

This level of visibility is invaluable for managing warranties, tracking reliability, isolating ILS deficiencies and locating individual assets everywhere in the world. This system was developed in response to the Aviation Maintenance - Supply Review which determined that serial number tracking is a necessary requirement to accurately assess declines in Naval Aviation readiness.

The system was developed by a team of experts from NAVSUP, NAVICP, NAVAIR, NAVSEA, SPAWAR, and FMSO.

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Reliability



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SNT Web Page

SNTS \ Aviation Maintenance \ Reliability - Microsoft Internet Explorer

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Back Forward Stop Home Search Favorites Media Print View Source

Address https://www.snt.navsup.navy.mil/queries/AviationMaintenance/Reliability/default.shtml

Decision Support



Reliability

Strong
candidate

Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
Asset Visibility | Aviation Engineering | Aviation Maintenance | Inventory | Shipboard Engineering | Shipboard Maintenance | Warranty

Search Criteria

Serial Number:

Part Number:

680800-14

CAGE Code:

Type Model Series:

Search

Reset

<< Back to Aviation Maintenance

Sort: <NONE>

Ascending

Sort

Export to Microsoft® Excel®

Printer Friendly Version

	Serial Number	Part Number	CAGE Code	CAGE Name	Type Model Series	Total BCMs	Total Transactions
1	000	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
2	0000	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
3	00000	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
4	187	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
5	1EHL011	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
6	4KBP005	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
7	54672	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
8	68080014	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
9	765	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
10	B0B049	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
11	C0105	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
12	CAQ-003	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
13	CHK00008	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	5
14	CHK008	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	4
15	CRL00027	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
16	CXH-005	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
17	CXH00005	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1

Done

Internet

Start

In...

SN...

TO...

do...

SN...

SN...

Ho...

Vis...

bu...

SN...

SN...

Internet

10:10 AM

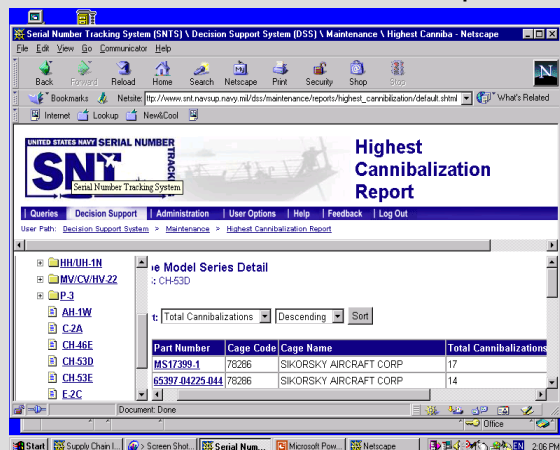
SNT Web Page Query Results

SNT Web Page

Decision Support

Generate, Collect & Analyze Maintenance Data

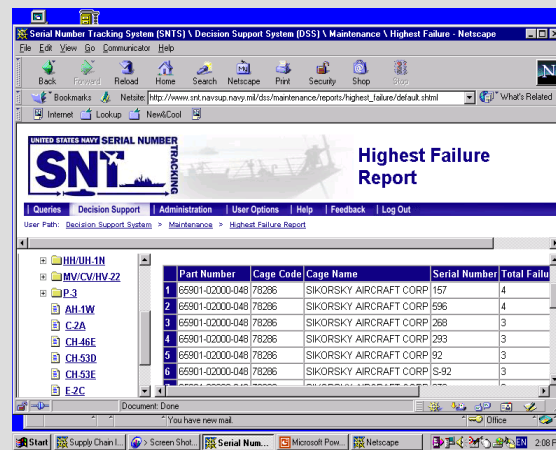
SNT Existing Reports

Highest Cannibalization Report

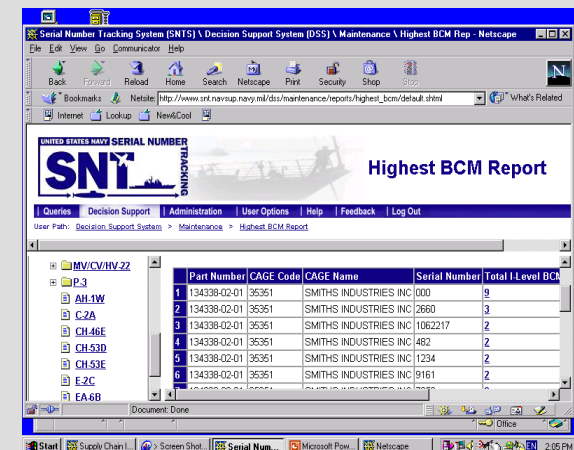
Model Series Detail: CH-53D

Part Number	Cage Code	Cage Name	Total Cannibalizations
MS17399-1	78286	SIKORSKY AIRCRAFT CORP	17
65397-84725-044	78286	SIKORSKY AIRCRAFT CORP	14



Highest Failure Report

Part Number	Cage Code	Cage Name	Serial Number	Total Failure
65801-02000-048	78286	SIKORSKY AIRCRAFT CORP	157	4
65801-02000-048	78286	SIKORSKY AIRCRAFT CORP	596	4
65801-02000-048	78286	SIKORSKY AIRCRAFT CORP	268	3
65801-02000-048	78286	SIKORSKY AIRCRAFT CORP	293	3
65801-02000-048	78286	SIKORSKY AIRCRAFT CORP	92	3
65801-02000-048	78286	SIKORSKY AIRCRAFT CORP	S-92	3



Highest BCM Report

Part Number	CAGE Code	CAGE Name	Serial Number	Total Level BCM
134338-02-01	36361	SMITHS INDUSTRIES INC	000	9
134338-02-01	36361	SMITHS INDUSTRIES INC	2680	3
134338-02-01	36361	SMITHS INDUSTRIES INC	1062217	2
134338-02-01	36361	SMITHS INDUSTRIES INC	482	2
134338-02-01	36361	SMITHS INDUSTRIES INC	1234	2
134338-02-01	36361	SMITHS INDUSTRIES INC	9161	2

Additional Reports - Top Cost Driver, Top Degraders

- **NOW**
 - Serial Number field in database
 - Prepare labels to identify individual items
 - Improve quality and ease of data entry
- **FY-03**
 - Access database via SNT web page
 - ARI information to be sent to appropriate consignee

Wholesale System Reporting S/N

Recent Accomplishments

Coming Soon
DSS Reports
SN of
Selected Items
For Receipts/
Issues



Web-enabled



SNT System

SNT WEB
Site
Accesses
Navy
Repository

DDNV 12/8/02- 3/3/03
DDDC/DDCN 1/12/03 -
3/3/03

Navy Repository

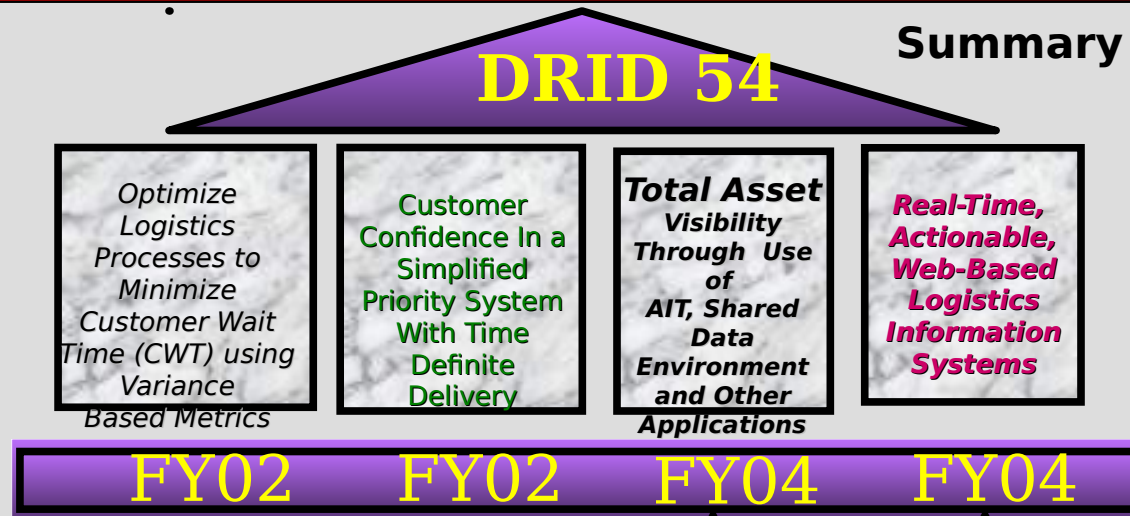
Receipts	W/ SN	W/O SN
DDNV	6	22
DDDC	193	112
DDCN	493	201
Issues		
DDNV	15	9
DDDC	95	164
DDCN	470	314

SIM / SNT Parallel Goals



Complements

- SUPER REG
- SIM Directive - 9/4/02
- ADC 44 & 89
- DOD UID Ltr - 4/4/03
- DODD 4151.18 Draft 3/5/03



Summary

- **SNT Project well underway**
- **SNTS Web Application on line -
accessing live data**
 - **Decision Support and Reliability Modules**
- **Prototypes completed - proven concept**
- **Complying with DOD directives**
- **SNT is a part of (and complements) TAV**



Points of Contact

<http://www.snt.navsup.navy.mil>



NAVAL SUPPLY SYSTEMS
COMMAND

Project Manager

- ◆ LCDR Matt Mullins (NAVSUP 4B1I)
- ◆ DSN 430-2152 COM (717) 605-2152
- ◆ Email: matthew.mullins@navy.mil

Assistant Project

- ◆ Wayne Hoover (NAVICP-Mech)
- ◆ DSN 430-6668 COM (717) 605-6668
- ◆ Email: Wayne.Hoover@navy.mil

Contractor Support

Susan Dadey (CTC)

(814) 269-6519

(717) 605-4601

Email: dadeys@ctcgsc.org

david.a.larson@navy.mil

David Larson (Uii)

DSN 430-4601 COM

Email: